## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A compound of the formula I,

or a pharmaceutically acceptable salt or ester thereof,

in which

R1, R2, R3, R4, R5, R6

independently of one another are (C<sub>0</sub>-C<sub>30</sub>)-

C<sub>6</sub>)-alkylphenyl)- or -NH-; or

H, F, Cl, Br, I, CF<sub>3</sub>, NO<sub>2</sub>, CN, COOH, COO( $C_1$ - $C_6$ )-alkyl, CONH<sub>2</sub>, CONH( $C_1$ - $C_6$ )-alkyl, CON[( $C_1$ - $C_6$ )-alkyl, ( $C_2$ - $C_6$ )-alkyl, ( $C_2$ - $C_6$ )-alkynyl or O-( $C_1$ - $C_6$ )-

alkyl, where one, more or all hydrogens in the alkyl radicals may be replaced by fluorine; or

SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO<sub>2</sub>N[(C<sub>1</sub>-C<sub>6</sub>)-alkyl]<sub>2</sub>, S-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, S-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO<sub>2</sub>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n=0-6 and the phenyl radical may be substituted up to two times by F, Cl, Br, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>; or NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)<sub>2</sub>, NH(C<sub>1</sub>-C<sub>7</sub>)-acyl, phenyl, O-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n=0-6, where the phenyl ring may be mono- to trisubstituted by F, Cl, Br, I, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)<sub>2</sub>, SO<sub>2</sub>-CH<sub>3</sub>, COOH, COO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or CONH<sub>2</sub>;

(LAG) is a sugar residue, disugar residue, trisugar residue, tetrasugar residue; a sugar acid, an amino sugar;

an amino acid residue, an oligopeptide residue comprising 2 to 9 amino acids; a trialkylammoniumalkyl radical; or -O-(SO<sub>2</sub>)-OH;

wherein at least one of the radicals R1 to R6 has the meaning ( $C_0$ - $C_{30}$ )-alkylene-(LAG), where one or more carbon atoms of the alkylene radical may be replaced by -O-, -(C=O)-, -CH=CH-, -C $\equiv$ C-, -N(( $C_1$ - $C_6$ )-alkyl)-, -N(( $C_1$ - $C_6$ )-alkylphenyl)- or -NH-, and where the radicals R1 and R2 may not have the meaning -O-sugar residue or -O-sugar acid.

2. (Original) A compound as claimed in claim 1, wherein R1, R2, R3, R4, R5, R6 independently of one another are (C<sub>0</sub>-C<sub>30</sub>)-

alkylene-(LAG), where one or more carbon atoms of the alkylene radical may be replaced by -O-, -(C=O)-, -N(( $C_1$ - $C_6$ )-alkyl)- or -NH-; or

H, F, Cl, Br, I, CF<sub>3</sub>, NO<sub>2</sub>, CN, COOH, COO( $C_1$ - $C_6$ )-alkyl, CONH<sub>2</sub>, CONH( $C_1$ - $C_6$ )-alkyl, CON[( $C_1$ - $C_6$ )-alkyl]<sub>2</sub>, ( $C_1$ - $C_6$ )-alkyl, ( $C_2$ - $C_6$ )-alkenyl, ( $C_2$ - $C_6$ )-alkyl, where one, more or all hydrogens in the alkyl radicals may be replaced by fluorine; or

SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO<sub>2</sub>N[(C<sub>1</sub>-C<sub>6</sub>)-alkyl]<sub>2</sub>, S-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, S-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO<sub>2</sub>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n = 0 - 6 and the phenyl radical may be substituted up to two times by F, Cl, Br, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>; or NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)<sub>2</sub>, NH(C<sub>1</sub>-C<sub>7</sub>)-acyl, phenyl or O-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n = 0 - 6 and the phenyl ring may be mono- to trisubstituted by F, Cl, Br, I, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>;

- (LAG) is a sugar residue, disugar residue, trisugar residue, tetrasugar residue; a sugar acid, an amino sugar;
  - an amino acid residue, an oligopeptide residue comprising 2 to 9 amino acids; a trialkylammoniumalkyl radical; or -O-(SO<sub>2</sub>)-OH;

wherein at least one of the radicals R1 to R6 has the meaning ( $C_0$ - $C_{30}$ )-alkylene-(LAG), where one or more carbon atoms of the alkylene radical may be replaced by -O-,

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-(C=O)-, -N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)- or -NH-, and where the radicals R1 and R2 may not have the meaning -O-sugar residue or -O-sugar acid.

3. (Original) A compound as claimed in claim 1, wherein R1, R2, R3, R4, R5, R6 independently of one another are (C<sub>0</sub>-C<sub>30</sub>)-alkylene-(LAG), where one or more carbon atoms of the alkylene radical may be replaced by -O-, -(C=O)-, -N(C<sub>3</sub>)- or -NH-; or

H, F, Cl, Br, I, CF<sub>3</sub>, NO<sub>2</sub>, CN, COOH, COO( $C_1$ - $C_6$ )-alkyl, CONH<sub>2</sub>, CONH( $C_1$ - $C_6$ )-alkyl, CON[( $C_1$ - $C_6$ )-alkyl]<sub>2</sub>, ( $C_1$ - $C_6$ )-alkyl, ( $C_2$ - $C_6$ )-alkenyl, ( $C_2$ - $C_6$ )-alkyl, where one, more or all hydrogens in the alkyl radicals may be replaced by fluorine; or

SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO<sub>2</sub>N[(C<sub>1</sub>-C<sub>6</sub>)-alkyl]<sub>2</sub>, S-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, S-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO<sub>2</sub>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n=0-6 and the phenyl radical may be substituted up to two times by F, Cl, Br, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>; or NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)<sub>2</sub>, NH(C<sub>1</sub>-C<sub>7</sub>)-acyl, phenyl or O-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n=0-6 and the phenyl ring may be mono- to trisubstituted by F, Cl, Br, I, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)<sub>2</sub>, SO<sub>2</sub>-CH<sub>3</sub>, COOH, COO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or CONH<sub>2</sub>;

(LAG) is a sugar residue, disugar residue, trisugar residue, tetrasugar residue; a sugar acid; an amino sugar;

an amino acid residue, an oligopeptide residue comprising 2 to 9 amino acids;

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a trialkylammoniumalkyl radical; or -O-(SO<sub>2</sub>)-OH;

wherein at least one of the radicals R1 or R6 has the meaning ( $C_0$ - $C_{30}$ )-alkylene-(LAG), where one or more carbon atoms of the alkylene radical may be replaced by -O-, - (C=O)-, -N(CH<sub>3</sub>)- or -NH-, and where the radicals R1 and R2 may not have the meaning -O-sugar residue or -O-sugar acid.

4. (Original) A compound as claimed in claim 1, wherein R1, R2, R3, R4, R5, R6 independently of one another are -(CH<sub>2</sub>)<sub>0-1</sub>-NH-(C=O)<sub>0-1</sub>-(C<sub>3</sub>-C<sub>25</sub>)-alkylene-(C=O)<sub>0-1</sub>-N(R7)<sub>0-1</sub>-LAG,where one or more carbon atoms of the alkylene radical may be replaced by oxygen atoms, or H, F, Cl, Br, I, CF<sub>3</sub>, NO<sub>2</sub>, CN, COOH, COO(C<sub>1</sub>-C<sub>6</sub>)-alkyl, CONH<sub>2</sub>, CONH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, CON[(C<sub>1</sub>-C<sub>6</sub>)-alkyl]<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>,)-alkyl, (C<sub>2</sub>-C<sub>6</sub>,)-alkenyl, (C<sub>2</sub>-C<sub>6</sub>)-alkynyl or O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, where one, more or all hydrogens in the alkyl radicals may be replaced by fluorine; or

SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO<sub>2</sub>N[(C<sub>1</sub>-C<sub>6</sub>)-alkyl]<sub>2</sub>, S-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, S-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, SO-(CH<sub>2</sub>)<sub>n</sub>-phenyl, SO<sub>2</sub>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or SO<sub>2</sub>-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n=0-6 and the phenyl radical may be substituted up to two times by F, Cl, Br, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>; or NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, N((C<sub>1</sub>-C<sub>6</sub>)-alkyl)<sub>2</sub>, NH(C<sub>1</sub>-C<sub>7</sub>)acyl, phenyl or O-(CH<sub>2</sub>)<sub>n</sub>-phenyl, where n=0-6 and the phenyl ring may be mono- to trisubstituted by F, Cl, Br, I, OH, CF<sub>3</sub>, NO<sub>2</sub>, CN, OCF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>;

R7 is H or CH<sub>3</sub>;

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(LAG) is a sugar residue;

where one of the radicals R1 or R3 has the meaning - $(CH_2)_{0-1}$ -NH- $(C=O)_{0-1}$ - $(C_3-C_{25})$ -alkylene- $(C=O)_{0-1}$ -N(R7)  $_{0-1}$ -LAG, where one or more carbon atoms of the alkylene radical may be replaced by oxygen atoms.

- 5. (Original) A pharmaceutical composition comprising one or more of the compounds as claimed in claim 1 and a pharmaceutically acceptable carrier.
  - 6. (Canceled)
  - 7. (Canceled)
  - 8. (Canceled)
- 9. (Previously Presented) A method for the treatment of impaired lipid metabolism, which comprises administering to a host in need of the treatment an effective amount of at least one compound as claimed in claim 1.
  - 10. (Canceled)
- 11. (Previously Presented) A method for the treatment of hyperlipidemia, which comprises administering to a host in need of the treatment an effective amount of at least one compound as claimed in claim 1.
  - 12. (Canceled)
- 13. (Previously Presented) A method for lowering or maintaining a desired level of serum cholesterol concentration in a host, which comprises administering to the host in need of lowering or maintaining of serum cholesterol concentration an effective amount of at least one compound as claimed in claim 1.

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14. (Previously Presented) A method for treating insulin resistance, which comprises administering to a host in need of the treatment an effective amount of at least one compound as claimed in claim 1.

- 15. (Canceled)
- 16. (Canceled)
- 17. (Canceled)